MITSUBISHI ELECTRIC

Mr. SLIM®
Split-ductless A/C and Heat Pumps

SUBMITTAL DATA: PLA-A30BA4 & PUZ-A30NHA4 . . . . . 30,000 BTU/H CEILING CASSETTE HEAT PUMP SYSTEM

Job Name: Location: Date:

Purchaser: Engineer:

Submitted to: For ☐ Reference ☐ Approval ☐ Construction

Unit Designation: Schedule No.:

GENERAL FEATURES

- Compact side-discharge outdoor unit
- Setback down to 50°F when used with MRCH1 Central Controller
- Quiet operation—indoor and outdoor units
- Built-in drain lift mechanism for condensate removal; lifts to 33-7/16"
- Wide air flow pattern for better air distribution
- Auto wave airflow in heating mode—unit independently cycles through horizontal and vertical positions for more even heat distribution
- Independent vane adjustment
- Automatic fan speed control
- Limited warranty: five years on parts/defects, seven years on compressors

OPTIONAL ACCESSORIES

Indoor Unit

- ◘ i-see Sensor Corner Panel (PAC-SA1ME)
- ◘ Multi-function Casement (PAC-SH53TM)
- ◘ Air Outlet Shutter Plates (PAC-SH51SP)
- ◘ High-efficiency (MERV 10) Filter (PAC-SH59KF)

Outdoor Unit

- ◘ Drain Pan (PAC-SG64DP)
- ◘ Drain Socket (PAC-SG61DS)
- ◘ Three-pole Disconnect Switch (TAZ-MS303)
- ◘ Wind Baffle (WB-PA2)
- ◘ Air Outlet Guide (PAC-SG59SG)
- ◘ Mounting Base (DSD-400N)
- ◘ Mounting Pad (ULTRILITE2)
- ◘ Wall-mounting Brackets (CWMB1)

Controller Options

- ◘ Wireless Remote Controller Kit (MHK1) with Wall-mounted Central Controller (MRCH1), Wireless Receiver (MIFH1), and cable*
- ◘ Wall-mounted Central Controller (MRCH1)*
- ◘ Wireless Receiver (MIFH1)*
- ◘ Portable Central Controller (MCCH1; for use with Wireless Remote Controller Kit MHK1)*
- ◘ Outdoor Air Sensor (MOS1; for use with Central Controller (MRCH1), Wireless Remote Controller Kit (MHK1) and Portable Central Controller (MCCH1)*

*See Submittal for information on each option.

- ◘ Wall-mounted Wired Remote Controller (PAR-21MAA)
- ◘ M-NET Adapter (PAC-SF81MA)
- ◘ CN51 Connector for Multiple Remote Controller Adapters/Duct Fan Controller (PAC-725AD)
- ◘ CN24 Relay Kit (CN24RELAY-KIT-CM)
- ◘ CN32 Connector for Remote On/Off (PAC-715AD)
- ◘ Remote Temperature Sensor (PAC-SE41TS)
- ◘ Remote Operation Adapter - Display and On/Off (PAC-SF40RM)
- ◘ Handheld Wireless Remote Controller (PAR-FL32MA; req. PAR-SA9FA)
- ◘ Wireless Signal Receiver Module (PAR-SA9FA)
- ◘ Lockdown Bracket for Handheld Controller (RCMKP1CB)
- ◘ Control/Service Tool (PAC-SK52ST)

Cooling*

Rated Capacity . . . . . 30,000 Btu/h
Minimum Capacity . . . . . 12,000 Btu/h
SEER . . . . . 13.6 Btu/h/W
EER . . . . . 7.3 Btu/h/W
Total Input . . . . . 4,100 W

Heating at 47F*

Rated Capacity . . . . . 32,000 Btu/h
Minimum Capacity . . . . . 12,000 Btu/h
HSPF . . . . . 8.7 Btu/h/W
COP 2.78
Total Input . . . . . 3,370 W

Heating at 17F*

Rated Capacity . . . . . 23,000 Btu/h
Total Input . . . . . 3,050 W
COP 2.20

* Rating Conditions (Cooling) - Indoor: 80°F (27°C) DB, 67°F (19°C) WB. Outdoor: 95°F (35°C) DB, 75°F (24°C) WB. (Heating at 47°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB. Outdoor: 47°F (8°C) DB, 43°F (6°C) WB. (Heating at 17°F) - Indoor: 70°F (21°C) DB, 60°F (16°C) WB. Outdoor: 17°F (-8.3°C) DB, 15°F (-9.4°C) WB.

Electrical Requirements

Power Supply . . . . . 208 / 230V, 1-Phase, 60 Hz
Recommended Fuse/Breaker Size . . . . . 30 A

Voltage

Indoor - Outdoor S1-S2 . . . . . AC 208 / 230V
Indoor - Outdoor S2-S3 . . . . . DC 24V

Indoor Unit: PLA-A30BA4

Outdoor Unit: PUZ-A30NHA4

OPERATING CONDITIONS

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	95°F (35°C) DB, 71°F (22°C) WB	115°F (46°C) DB
	Minimum	67°F (19°C) DB, 57°F (14°C) WB	0°F** (-18°C) DB
Heating	Maximum	80°F (27°C) DB, 67°F (19°C) WB	70°F (21°C) DB, 59°F (15°C) WB
	Minimum	70°F (21°C) DB, 60°F (16°C) WB	12°F (-11°C) DB, 10°F (-12°C) WB

** With optional wind baffle accessory installed. If not installed, the minimum temperature will be 23°F (-5°C) DB.

Indoor Unit

MCA . . . . . 1 A
Fan Motor . . . . . 0.51 F.L.A.
Fan Motor Output . . . . . 50 W
Airflow (Lo - M1 - M2 - Hi) . . . . . 490 - 570 - 640 - 740 Dry CFM
460 - 530 - 600 - 710 Wet CFM
Sound Level (Lo - M1 - M2 - Hi) . . . . . 28 - 30 - 32 - 34 dB(A)
SHF 0.73
Moisture Removal . . . . . 7.2 pt./h

DIMENSIONS	UNIT INCHES / MM	PANEL INCHES / MM
W	33-1/16 / 840	37-3/8 / 950
D	33-1/16 / 840	37-3/8 / 950
H	10-3/16 / 258	1-3/8 / 35

Weight (Unit/Grille)
lbs. . . . . 51 / 13
kg . . . . . 23 / 6
External Finish . . . . . Munsell No. 6.4Y 8.9 / 0.4
Field Drainpipe Size O.D. . . . . 1-1/4" / 32 mm

Outdoor Unit

Compressor . . . . . DC Inverter-driven Twin Rotary
MCA . . . . . 25 A
MOCP . . . . . 40 A
Fan Motor . . . . . 0.75 F.L.A.
Sound Pressure Level
Cooling . . . . . 48 dB(A)
Heating . . . . . 50 dB(A)

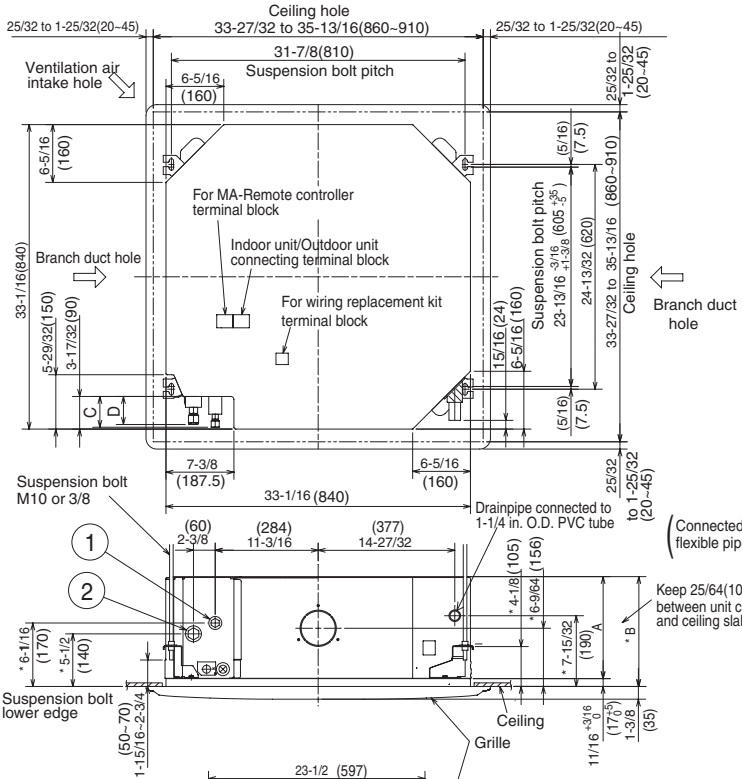
DIMENSIONS	INCHES / MM
W	37-3/8 / 950
D	13 + 1-3/16 / 330 + 30
H	37-1/8 / 943

Weight . . . . . 165 lbs. / 75 kg
External Finish . . . . . Munsell No. 3Y 7.8 / 1.1
Refrigerant Type R410A
Refrigerant Pipe Size O.D.
Gas Side . . . . . 5/8" / 15.88 mm
Liquid Side . . . . . 3/8" / 9.52 mm
Max. Refrigerant Pipe Length . . . . . 165' / 50 m
Max. Refrigerant Pipe Height Difference . . . . . 100' / 30 m
Connection Method . . . . . Flared

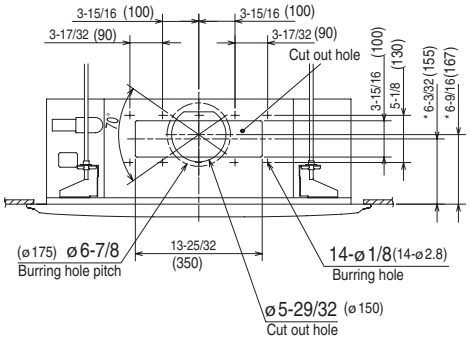
R410A INVERTER

DIMENSIONS: PLA-A30BA4

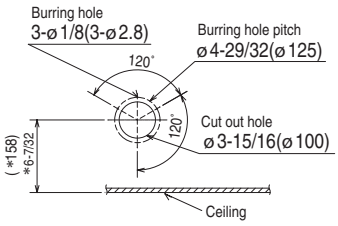
Unit : inch(mm)

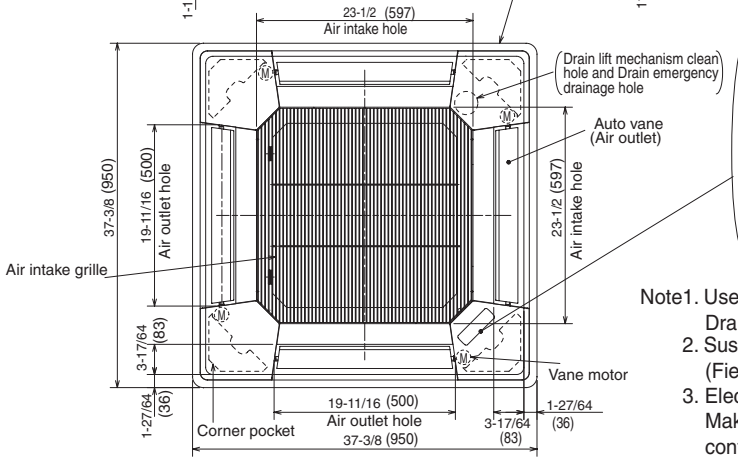


Detail connecting of branch duct (nominal 6" round or nominal 4 x 14" rectangular)



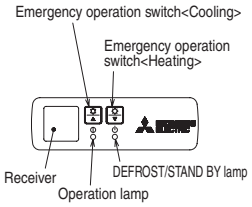
Detail drawing of ventilation air intake connection

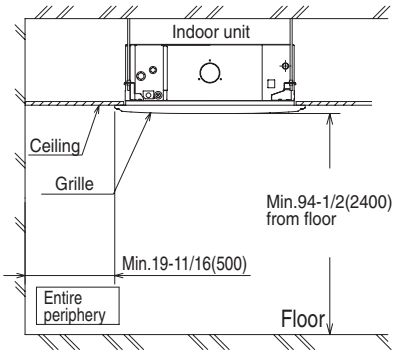




In case of standard grille

In case of wireless remote controller



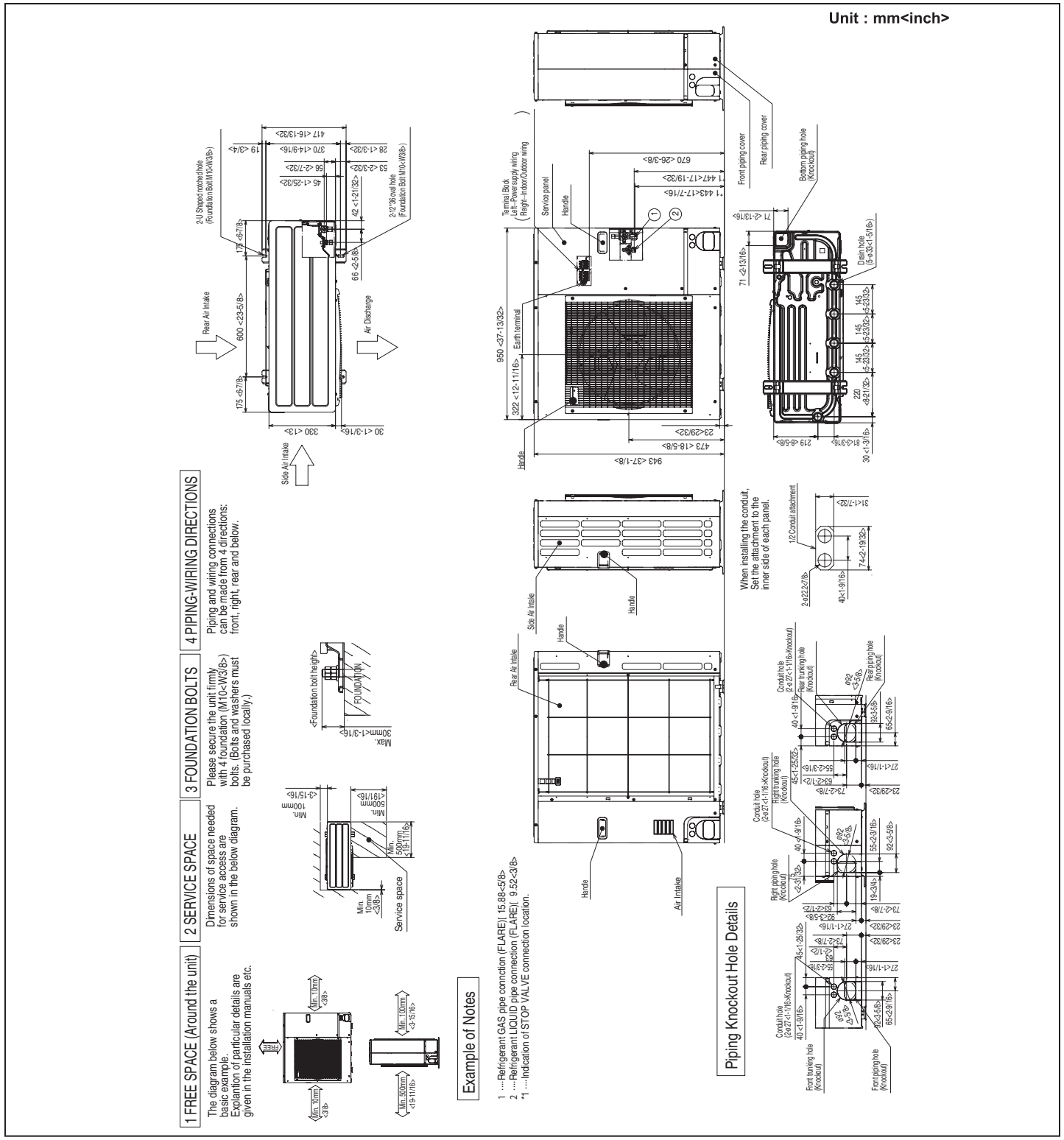


Note1. Use 1-1/4 in. O.D. (32) PVC TUBE.
Drain lift mechanism is included.
2. Suspension bolt, use M10 or W3/8.
(Field supplied)
3. Electrical box may be removed for service purposes.
Make sure to slack the electrical wire little bit for control/power wires connection.
4. The height of the indoor unit is adjustable with the grille attached.
5. For the installation of the optional high efficiency filter, the optional multi-functional casement is required.
1) Add 5-5/16 (135mm) to the dimensions marked with an * in the figures
2) The optional high efficiency filter required optional multi-functional casement.
6. When installing the branch ducts, be sure to insulate adequately.
Otherwise condensation may occur.
7. As for necessary installation/service space, please refer to the bottom left figure.

Models	①	②	A	B	C	D
PLA-A12BA4 PLA-A18BA4	Refrigerant pipe ····ø6.35mm Flared connection ····1/4	Refrigerant pipe ····ø12.7mm Flared connection ····1/2	9-1/2 (241)	10-3/16 (258)	3-5/32 (80)	2-29/32 (74)
PLA-A24BA4 PLA-A30BA4	Refrigerant pipe ····ø9.52mm Flared connection ····3/8	Refrigerant pipe ····ø15.88mm Flared connection ····5/8				
PLA-A36BA4 PLA-A42BA4			11-1/16 (281)	11-3/4 (298)	3-11/32 (85)	3-1/32 (77)

DIMENSIONS: PUZ-A30NHA4

Unit : mm<inch>


1 FREE SPACE (Around the unit)
The diagram below shows a basic example.
Explanation of particular details are given in the installation manuals etc.
2 SERVICE SPACE
Dimensions of space needed for service access are shown in the below diagram.
3 FOUNDATION BOLTS
Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts and washers must be purchased locally.)
4 PIPING-WIRING DIRECTIONS
Piping and wiring connections can be made from 4 directions: front, right, rear and below.
Example of Notes
1 .... Refrigerant GAS pipe connction (FLARE)| 15.88<5/8>
2 .... Refrigerant LIQUID pipe connection (FLARE)| 9.52<3/8>
*1 .... Indication of STOP VALVE connection location.
Piping Knockout Hole Details
When installing the conduit, Set the attachment to the inner side of each panel.
Rear Air Intake
Side Air Intake
Air Discharge
Front piping cover
Rear piping cover
Service panel
Handle
Terminal Block (Left : Power supply wiring Right : Indoor/Outdoor wiring)
Earth terminal
Bottom piping hole (Knockout)
Drain hole
Foundation bolt height
Service space
Air Intake
Front trunking hole (Knockout)
Front piping hole (Knockout)
Rear trunking hole (Knockout)
Rear piping hole (Knockout)
Right piping hole (Knockout)
Right trunking hole (Knockout)
Conduit hole
1/2 Conduit attachment

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Specifications are subject to change without notice.

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